

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
14 April 2005 (14.04.2005)

PCT

(10) International Publication Number
WO 2005/032565 A1

(51) International Patent Classification⁷: A61K 35/14, 35/16, 35/18, A61M 1/34, 1/36

(21) International Application Number:
PCT/GB2004/004173

(22) International Filing Date:
28 September 2004 (28.09.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0322791.5 30 September 2003 (30.09.2003) GB

(71) Applicant (for all designated States except US): LIFE-FORCE GROUP PLC [GB/GB]; Unit 35, Imperial House, Imperial Science Park, Newport, Gwent, NP10 8UH (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): SPIERS, William, Arthur [GB/GB]; Paradise Barn, 30 The Rank, North Bradley, Wiltshire, BA14 9RP (GB).

(74) Agent: PRICE, Vincent, Andrew; Price & Co., 6 Manor Court, St Georges, Mill Lane, North Chailey, East Sussex BN8 4EG (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/032565 A1

(54) Title: BLOOD CO-PROCESSING FOR CONTINGENT AUTOLOGOUS LEUKOCYTE TRANSPLANTATION

(57) Abstract: A process for producing a leukocyte bank suitable for CAT therapy comprising the steps of providing a blood sample from a healthy donor individual; selectively separating and collecting leukocytes from the sample; selectively separating and collecting red blood cells and/or platelets and/or plasma from the sample; and cryogenically preserving the leukocytes (and optionally the red blood cells and/or platelets and/or plasma); wherein steps are conducted with an automated leukapheresis device comprising a separation device (e.g. a centrifuge rotor or filter), a leukapheresis tubing set and one or more pumps for conveying the sample through the tubing set and the separated leukocytes into a collection vessel.